

WEST Search History

DATE: Saturday, March 09, 2002

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB; PLUR=YES; OP=ADJ

| | | | |
|-----|---|-------|-----|
| L15 | ferment\$7 and l11 | 1520 | L15 |
| L14 | L13 and l8 | 0 | L14 |
| L13 | phosphoribosyl pyrophosphate synthetase and l11 | 1 | L13 |
| L12 | phosphoribosyl pyrophosphate amidotransferase and l11 | 0 | L12 |
| L11 | l10 and l9 | 8642 | L11 |
| L10 | purine\$1 or ADENOSINE or GUANOSINE or INOSINE or XANTHOSINE or Purine ribonucleoside | 22578 | L10 |
| L9 | Escherichia coli or e coli or Paracolobactrum coliforme | 39832 | L9 |
| L8 | l7 or l6 or l5 or l4 or l3 or l2 or l1 | 3848 | L8 |
| L7 | ((((435/252.8)!CCLS.)) | 203 | L7 |
| L6 | ((((435/243)!CCLS.)) | 914 | L6 |
| L5 | ((((435/194)!CCLS.)) | 801 | L5 |
| L4 | ((((435/193)!CCLS.)) | 805 | L4 |
| L3 | ((((435/183)!CCLS.)) | 1225 | L3 |
| L2 | ((((435/88)!CCLS.)) | 120 | L2 |
| L1 | ((435/87)!CCLS.) | 87 | L1 |

END OF SEARCH HISTORY

WEST**End of Result Set**

Generate Collection

Print

L13: Entry 1 of 1

File: USPT

Jan 1, 2002

US-PAT-NO: 6335170

DOCUMENT-IDENTIFIER: US 6335170 B1

TITLE: Gene expression in bladder tumors

DATE-ISSUED: January 1, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-----------------|-------|----------|---------|
| Orntoft; Torben F. | DK 8230 Aabyhoj | | | DKX |

APPL-NO: 9/ 510643 [PALM]

DATE FILED: February 22, 2000

PARENT-CASE:

This application claims the benefit of U.S. Provisional Application No. 60/121,124, filed Feb. 22, 1999, which is hereby incorporated by reference in its entirety.

INT-CL: [7] C12 Q 1/68, C12 P 19/34, C07 H 21/02

US-CL-ISSUED: 435/6; 435/91.1, 435/91.2, 536/23.1, 536/24.3, 536/24.31, 536/24.33

US-CL-CURRENT: 435/6; 435/91.1, 435/91.2, 536/23.1, 536/24.3, 536/24.31, 536/24.33

FIELD-OF-SEARCH: 435/6, 435/91.1, 435/91.2, 536/23.1, 536/24.3, 536/24.31, 536/24.33

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected

Search ALL

| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--------------------------|---------|---------------|---------------|-------|
| <input type="checkbox"/> | 5677125 | October 1997 | Holt et al. | 435/6 |
| <input type="checkbox"/> | 5700637 | December 1997 | Southern | 435/6 |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | US-CL |
|----------------|----------------|---------|-------|
| 198 18 619 | October 1999 | DEX | |
| 89/10977 | November 1989 | WOX | |
| 96/30389 | October 1996 | WOX | |
| 97/16206 | May 1997 | WOX | |
| 97/28446 | August 1997 | WOX | |
| 98/53319 | November 1998 | WOX | |
| 99/47674 | September 1999 | WOX | |

OTHER PUBLICATIONS

Liebert et al, "Identification of new biomarkers for bladder cancer using the differential display reverse transcriptase polymerase chain reaction", Proc. Am. Assn. Cancer Res. 38:287, Abstract 1928, Mar. 1997.*

Liebert et al, "Novel molecular markers fof bladder cancer revealed by differential display reverse transcriptase polymerase chain reaction", J. Urol. 159(5 suppl.) 286, Abstract 1101, May 1998.*

Peter S. Nelson, et al., "An Expressed-Sequence-Tag Database of the Human Prostate: Sequence Analysis of 1168 cDNA Clones", Genomics 47, pp. 12-25, 1998.

David B. Krizman, et al., "Construction of a Representative cDNA Library from Prostatic Intraepithelial Neoplasia", Cancer Research 56, pp. 5380-5383, Dec. 1, 1996.

Victoria Hawkins, et al., "PEDB: The Prostate Expression Database", Nucleic Acids Research, vol. 27, No. 1, pp. 240-208, 1999.

Lin Zhang, et al., "Gene Expression Profiles in Normal and Cancer Cells", Science, vol. 276, pp. 1268-1272, May 23, 1997.

Torben F. Orntoft, et al., "Molecular Alterations in Bladder Cancer", United Editorial, XP-000971351, Nov. 11, 1997.

Margaret A. Knowles, et al., Molecular Genetics of Bladder Cancer: Pathways of Development and Progression, Cancer Surveys, vol. 31, pp. 49-76, 1998.

ART-UNIT: 1655

PRIMARY-EXAMINER: Fredman; Jeffrey

ATTY-AGENT-FIRM: Banner & Witcoff, Ltd.

ABSTRACT:

Methods for analyzing tumor cells, particularly bladder tumor cells employ gene expression analysis of samples. Gene expression patterns are formed and compared to reference patterns.

Alternatively gene expression patterns are manipulated to exclude genes which are expressed in contaminating cell populations.

Another alternative employs subtraction of the expression of genes which are expressed in contaminating cell types. These methods provide improved accuracy as well as alternative basis for analysis from diagnostic and prognostic tools currently available.

21 Claims, 24 Drawing figures

=> d full his

(FILE 'HOME' ENTERED AT 13:16:37 ON 09 MAR 2002)

FILE 'REGISTRY' ENTERED AT 13:22:52 ON 09 MAR 2002

L1 1 SEA ABB=ON PLU=ON PHOSPHORIBOSYL PYROPHOSPHATE SYNTHETASE/CN

D

FILE 'HCAPLUS' ENTERED AT 13:23:21 ON 09 MAR 2002

FILE 'REGISTRY' ENTERED AT 13:23:25 ON 09 MAR 2002

SET SMARTSELECT ON

L2 SEL PLU=ON L1 1- CHEM : 16 TERMS

SET SMARTSELECT OFF

FILE 'HCAPLUS' ENTERED AT 13:23:25 ON 09 MAR 2002

L3 514 SEA ABB=ON PLU=ON L2

L4 209873 SEA ABB=ON PLU=ON ESCHERICHIA COLI OR E# COLI OR PARACOLOBACT
RUM COLIFORME

L5 6105 SEA ABB=ON PLU=ON PURINE NUCLEOSIDE# OR (NUCLEOSIDES (L)
PURINE) OR PURINE RIBONUCLEOSIDE#

L6 2 SEA ABB=ON PLU=ON L3 (L) L4 (L) L5
D IBIB AB 1-2

=> d ibib ab 1-2

L6 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:77676 HCAPLUS

DOCUMENT NUMBER: 130:152661

TITLE: Escherichia containing mutants of enzymes associated with improved biosynthesis of purine nucleosides by fermentation

INVENTOR(S): Matsui, Hiroshi; Kawasaki, Hisashi; Shimaoka, Megumi; Takenaka, Yasuhiro; Kurahashi, Osamu

PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Japan

SOURCE: PCT Int. Appl., 72 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|--|------|----------|-----------------|------------|
| WO 9903988 | A1 | 19990128 | WO 1998-JP3239 | 19980717 |
| W: BR, CN, ID, JP, KR, US | | | | |
| RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| EP 1004663 | A1 | 20000531 | EP 1998-932584 | 19980717 |
| R: DE, FR, GB, IT | | | | |
| BR 9815557 | A | 20010717 | BR 1998-15557 | 19980717 |
| PRIORITY APPLN. INFO.: | | | JP 1997-194603 | A 19970718 |
| | | | WO 1998-JP3239 | W 19980717 |

AB An Escherichia strain capable of producing **purine nucleosides** with improved yield is characterized as having (1) a PRPP (phosphoribosyl pyrophosphate) amidotransferase (encoded by gene purF) or **PRPP synthase** (gene prs) mutant lacking feedback inhibition; (2) inactivated **purine** repressor; (3) blocked synthetic pathway catalyzed by, e.g., succinyl-adenosine monophosphate synthase, that leads to the synthesis of other metabolic products; and/or (4) reduced ability of the nucleoside permease-regulated cellular up-taking of **purine nucleosides**. Prepn. of mutants from **Escherichia coli** K12 strain W3110 was demonstrated.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1982:540764 HCAPLUS

DOCUMENT NUMBER: 97:140764

TITLE: Phosphoribosyl pyrophosphate synthetase of Escherichia coli. Identification of a mutant enzyme

AUTHOR(S): Hove-Jensen, Bjarne; Nygaard, Per

CORPORATE SOURCE: Inst. Biol. Chem. B, Univ. Copenhagen, Copenhagen, Den.

SOURCE: Eur. J. Biochem. (1982), 126(2), 327-32

CODEN: EJBCAI; ISSN: 0014-2956

DOCUMENT TYPE: Journal

LANGUAGE: English

AB From an **E. coli** **purine** auxotroph a mutant defective in **phosphoribosyl pyrophosphate synthetase** (I) was isolated and partially characterized. In contrast to the parental strain, the mutant was able to grow on **nucleosides** as **purine** source, whereas growth on **purine** bases was reduced. Kinetic anal. of the mutant I revealed an apparent Km for ATP and ribose 5-phosphate of 1.0 mM and 240 .mu.M, resp., compared to 60 and 45 .mu.M, resp., for the wild-type enzyme. ADP, which inhibits wild-type I at a concn. of 0.5 mM ribose 5-phosphate, stimulated mutant I. The activity of I in crude ext. was higher in the mutant than in the parent. When starved for **purines**, an accumulation of phosphoribosyl pyrophosphate was obsd. in the parent

strain, whereas the pool decreased in the mutant. During pyrimidine starvation derepression of I activity was obsd. in both strains, although to a lesser extent in the mutant. Presumably, the mutant harbors a mutation in the structural gene for I. The mutation responsible for the altered I was located in the purB-hemA region at 26 min on the recalibrated linkage map.